



1600

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/589,777C

DATE: 03/27/2002
TIME: 13:56:02

Input Set : A:\1440.1023-011.txt
Output Set: N:\CRF3\03272002\I589777C.raw

4 <110> APPLICANT: Sukhatme, Vikas P.
 6 <120> TITLE OF INVENTION: Anti-Angiogenic Peptides and Methods of
 7 Use Thereof
 9 <130> FILE REFERENCE: 1440.1023-011
 11 <140> CURRENT APPLICATION NUMBER: US 09/589,777C
 12 <141> CURRENT FILING DATE: 2000-06-08
 14 <150> PRIOR APPLICATION NUMBER: PCT/US98/26057
 15 <151> PRIOR FILING DATE: 1998-12-08
 17 <150> PRIOR APPLICATION NUMBER: US 60/108,536
 18 <151> PRIOR FILING DATE: 1998-11-16
 20 <150> PRIOR APPLICATION NUMBER: US 60/082,663
 21 <151> PRIOR FILING DATE: 1998-04-22
 23 <150> PRIOR APPLICATION NUMBER: US 60/067,888
 24 <151> PRIOR FILING DATE: 1997-12-08
 26 <160> NUMBER OF SEQ ID NOS: 25
 28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 555
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Mus musculus
 35 <220> FEATURE:
 36 <221> NAME/KEY: misc_feature
 37 <222> LOCATION: (1)...(525)
 38 <223> OTHER INFORMATION: protein EM1
 40 <221> NAME/KEY: misc_feature
 41 <222> LOCATION: (1)...(501)
 42 <223> OTHER INFORMATION: protein EM2
 44 <221> NAME/KEY: CDS
 45 <222> LOCATION: (1)...(552)
 47 <400> SEQUENCE: 1 48
 48 cat act cat cag gac ttt cag cca gtg ctc cac ctg gca ctg aac 48
 49 His Thr His Gln Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn 15
 50 1 5 10 15
 51 acc ccc ctg tct gga ggc atg cgt ggt atc cgt gga gca gat ttc cag 96
 52 Thr Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln 20 25 30
 53 20 25 30
 54 tgc ttc cag caa gcc cga gcc gtg ggg ctg tcc ggc acc ttc cgg gct 144
 55 tgc ttc cag caa gcc cga gcc gtg ggg ctg tcc ggc acc ttc cgg gct 144
 56 Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ser Gly Thr Phe Arg Ala 35 40 45
 57 35 40
 58 ttc ctg tcc tct agg ctg cag gat ctc tat agc atc gtg cgc cgt gct 192
 59 Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala 55 60
 60 50 55 60
 61 50 55 60
 62 gac cgg ggg tct gtg ccc atc gtc aac ctg aag gac gag gtg cta tct 240
 63 50 55 60
 64 gac cgg ggg tct gtg ccc atc gtc aac ctg aag gac gag gtg cta tct

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65 Asp Arg Gly Ser Val Pro Ile Val Asn Leu Lys Asp Glu Val Leu Ser	80	
66 65 70 75		288
68 ccc agc tgg gac tcc ctg ttt tct ggc tcc cag ggt caa ctg caa ccc		
69 Pro Ser Trp Asp Ser Leu Phe Ser Gly Ser Gln Gly Gln Leu Gln Pro	95	
70 85 90		
72 ggg gcc cgc atc ttt tct ttt gac ggc aga gat gtc ctg aga cac cca	336	
73 Gly Ala Arg Ile Phe Ser Phe Asp Gly Arg Asp Val Leu Arg His Pro	110	
74 100 105		
76 gcc tgg ccg cag aag agc gta tgg cac ggc tcg gac ccc agt ggg cgg	384	
77 Ala Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Ser Gly Arg		
78 115 120 125		
80 agg ctg atg gag agt tac tgt gag aca tgg cga act gaa act act ggg	432	
81 Arg Leu Met Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Thr Thr Gly		
82 130 135 140		
84 gct aca ggt cag gcc tcc tcc ctg ctg tca ggc agg ctc ctg gaa cag	480	
85 Ala Thr Gly Gln Ala Ser Ser Leu Leu Ser Gly Arg Leu Leu Glu Gln	160	
86 145 150 155		
88 aaa gct gcg agc tgc cac aac agc tac atc gtc ctg tgc att gag aat	528	
89 Lys Ala Ala Ser Cys His Asn Ser Tyr Ile Val Leu Cys Ile Glu Asn		
90 165 170 175		
92 agc ttc atg acc tct ttc tcc aaa tag	555	
93 Ser Phe Met Thr Ser Phe Ser Lys		
94 180		
97 <210> SEQ ID NO: 2		
98 <211> LENGTH: 184		
99. <212> TYPE: PRT		
100 <213> ORGANISM: Mus musculus		
102 <400> SEQUENCE: 2		
103 His Thr His Gln Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn		
104 1 5 10 15		
105 Thr Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln		
106 20 25 30		
107 Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ser Gly Thr Phe Arg Ala		
108 35 40 45		
109 Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala		
110 50 55 60		
111 Asp Arg Gly Ser Val Pro Ile Val Asn Leu Lys Asp Glu Val Leu Ser		
112 65 70 75 80		
113 Pro Ser Trp Asp Ser Leu Phe Ser Gly Ser Gln Gly Gln Leu Gln Pro		
114 85 90 95		
115 Gly Ala Arg Ile Phe Ser Phe Asp Gly Arg Asp Val Leu Arg His Pro		
116 100 105 110		
117 Ala Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Ser Gly Arg		
118 115 120 125		
119 Arg Leu Met Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Thr Thr Gly		
120 130 135 140		
121 Ala Thr Gly Gln Ala Ser Ser Leu Leu Ser Gly Arg Leu Leu Glu Gln		
122 145 150 155 160		
123 Lys Ala Ala Ser Cys His Asn Ser Tyr Ile Val Leu Cys Ile Glu Asn		

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131	<213> ORGANISM: Artificial Sequence		
133	<220> FEATURE:		
134	<223> OTHER INFORMATION: Oligonucleotide		
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137	ggcatatgca tactcatcg gacttt	26	
139	<210> SEQ ID NO: 4		
140	<211> LENGTH: 26		
141	<212> TYPE: DNA		
142	<213> ORGANISM: Artificial Sequence		
144	<220> FEATURE:		
145	<223> OTHER INFORMATION: Oligonucleotide		
147	<400> SEQUENCE: 4	26	
148	aactcgagct atttggagaa agaggt		
150	<210> SEQ ID NO: 5		
151	<211> LENGTH: 24		
152	<212> TYPE: PRT		
153	<213> ORGANISM: Artificial Sequence		
155	<220> FEATURE:		
156	<223> OTHER INFORMATION: Leader peptide on protein produced by prokaryotic expression system pET17b, mouse endostatin begins		
157	expression system pET17b, mouse endostatin begins		
158	immediately after.		
160	<400> SEQUENCE: 5		
161	Met Gly His His His His His His His His Ser Ser Gly His		
162	1 5 10 15		
163	Ile Asp Asp Asp Asp Lys His Met		
164	20		
166	<210> SEQ ID NO: 6		
167	<211> LENGTH: 28		
168	<212> TYPE: DNA		
169	<213> ORGANISM: Artificial Sequence		
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172	<223> OTHER INFORMATION: Oligonucleotide		
175	<400> SEQUENCE: 6	28	
176	aagcggccgc ctatttggag aaagaggt		
178	<210> SEQ ID NO: 7		
179	<211> LENGTH: 21		
180	<212> TYPE: PRT		
181	<213> ORGANISM: Artificial Sequence		
183	<220> FEATURE:		
184	<223> OTHER INFORMATION: Leader peptide on protein produced by prokaryotic expression system pET28a, mouse endostatin begins		
185	expression system pET28a, mouse endostatin begins		
186	immediately after.		
188	<400> SEQUENCE: 7		

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189 Met Gly Ser Ser His His His His His Ser Ser Gly Leu Val Pro
190 1 5 10 15
191 Arg Gly Ser His Met
192 20
194 <210> SEQ ID NO: 8
195 <211> LENGTH: 33
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Oligonucleotide
202 <400> SEQUENCE: 8
203 ttccatatgc atactcatca ggactttcag cca 33
205 <210> SEQ ID NO: 9
206 <211> LENGTH: 35
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Oligonucleotide
213 <400> SEQUENCE: 9
214 ttagcggccg cctactcaat gcacaggacg atgta 35
216 <210> SEQ ID NO: 10
217 <211> LENGTH: 38
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Oligonucleotide
224 <400> SEQUENCE: 10
225 ttagcggccg cctagttgtg gcagctcgca gctttctg 38
227 <210> SEQ ID NO: 11
228 <211> LENGTH: 26
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Oligonucleotide
235 <400> SEQUENCE: 11 26
236 gggaaattcca tactcatcatcag gacttt
238 <210> SEQ ID NO: 12
239 <211> LENGTH: 32
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Oligonucleotide
246 <400> SEQUENCE: 12
247 aagaattcca tcatcatcatcatcagca gc 32
249 <210> SEQ ID NO: 13
250 <211> LENGTH: 26
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:

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Input Set : A:\1440.1023-011.txt
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255 <223> OTHER INFORMATION: Leader peptide on protein produced by eukaryotic
 256 yeast expression system pPICZaA, mouse endostatin
 257 protein begins immediately after.

259 <400> SEQUENCE: 13

260 Glu Phe Met Gly His His His His His His His His His Ser Ser
 261 1 5 10 15

262 Gly His Ile Asp Asp Asp Asp Lys His Met
 263 20 25

265 <210> SEQ ID NO: 14

266 <211> LENGTH: 44

267 <212> TYPE: DNA

268 <213> ORGANISM: Artificial Sequence

270 <220> FEATURE:

271 <223> OTHER INFORMATION: Oligonucleotide

273 <400> SEQUENCE: 14

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276 <210> SEQ ID NO: 15

277 <211> LENGTH: 44

278 <212> TYPE: DNA

279 <213> ORGANISM: Artificial Sequence

281 <220> FEATURE:

282 <223> OTHER INFORMATION: Oligonucleotide

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289 <212> TYPE: DNA

290 <213> ORGANISM: Artificial Sequence

292 <220> FEATURE:

293 <223> OTHER INFORMATION: Oligonucleotide

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299 <211> LENGTH: 50

300 <212> TYPE: DNA

301 <213> ORGANISM: Artificial Sequence

303 <220> FEATURE:

304 <223> OTHER INFORMATION: Oligonucleotide

306 <400> SEQUENCE: 17

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309 <210> SEQ ID NO: 18

310 <211> LENGTH: 24

311 <212> TYPE: DNA

312 <213> ORGANISM: Artificial Sequence

314 <220> FEATURE:

315 <223> OTHER INFORMATION: Oligonucleotide

317 <400> SEQUENCE: 18

318 aattccatca ccatcaccat cacg 24

320 <210> SEQ ID NO: 19

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/589,777C

DATE: 03/27/2002

TIME: 13:56:03

Input Set : A:\1440.1023-011.txt

Output Set: N:\CRF3\03272002\I589777C.raw